

1. Add

a) $\frac{-5}{7} + (\frac{-1}{7}) = \frac{-6}{7}$	b) $\frac{-5}{12} + (\frac{-2}{12}) = \frac{-7}{12}$	c) $\frac{3}{-8} + \frac{3}{8} =$ $\frac{-3}{8} + \frac{3}{8} = \frac{0}{8} = 0$
d) $\frac{-5}{-9} + (\frac{2}{-9})$ $\frac{5}{9} + \frac{-2}{9} = \frac{3}{9} = \frac{1}{3}$	e) $\frac{1}{-2} + (\frac{-5}{6})$ $\frac{-1}{2} + \frac{-5}{6} = \frac{-3}{6} + \frac{-5}{6}$ $\frac{-8}{6} = -1\frac{2}{6} = -1\frac{1}{3}$	f) $-1\frac{1}{2} + \frac{1}{4}$ $\frac{-3}{2} + \frac{1}{4} = \frac{-6}{4} + \frac{1}{4}$ $\frac{-5}{4} = -1\frac{1}{4}$

2. Subtract

a) $\frac{-3}{11} - \frac{2}{11} = \frac{-5}{11}$	b) $\frac{-9}{13} - (\frac{-1}{13})$ $\frac{-9}{13} + \frac{1}{13} = \frac{-8}{13}$	c) $\frac{7}{-9} - (\frac{-4}{9})$ $\frac{-7}{9} + \frac{4}{9} = \frac{-3}{9} = \frac{-1}{3}$
d) $\frac{-3}{-10} - (\frac{7}{-10})$ $\frac{3}{10} + \frac{7}{10} = \frac{10}{10} = 1$	e) $\frac{4}{-5} - (\frac{-3}{10})$ $\frac{-4}{5} + \frac{3}{10} = \frac{-8}{10} + \frac{3}{10}$ $\frac{-5}{10} = \frac{-1}{2}$	f) $\frac{-2}{3} - (\frac{1}{8})$ $\frac{-16}{24} - \frac{3}{24} = \frac{-19}{24}$

3. Find the missing rational number

a) $1 + \underline{\hspace{1cm}} = \frac{1}{2}$ $\frac{1}{2} - 1 = -\frac{1}{2}$	b) $\frac{2}{3} + \underline{\hspace{1cm}} = \frac{1}{3}$ $\frac{1}{3} - \frac{2}{3} = \frac{-1}{3}$	c) $\underline{\hspace{1cm}} + \frac{3}{4} = \frac{1}{2}$ $\frac{1}{2} - \frac{3}{4} = \frac{-1}{4}$	d) $\underline{\hspace{1cm}} = \frac{1}{2} - 1$ $\frac{1}{2} - \frac{2}{2} = \frac{-1}{2}$
---	---	---	---

4. Find the result

<p>a) $\frac{4}{-7} + (\frac{-2}{5})$</p> $\frac{-4}{7} + \frac{-2}{5} = \frac{-20}{35} + \frac{-14}{35}$ $\frac{-34}{35}$	<p>b) $\frac{-1}{-4} + (\frac{7}{-10})$</p> $\frac{1}{4} + \frac{-7}{10} = \frac{5}{20} + \frac{-14}{20} = \frac{-9}{20}$	<p>c) $1\frac{3}{10} + (-\frac{13}{10})$</p> $\frac{13}{10} + \frac{-13}{10} = 0$
<p>d) $\frac{2}{-3} + (\frac{1}{-8}) + 1$</p> $\frac{-2}{3} + \frac{-1}{8} + 1$ $\frac{-16}{24} + \frac{-3}{24} + \frac{24}{24} = \frac{5}{24}$	<p>e) $\frac{-2}{5} + \frac{1}{6} + (\frac{-1}{3})$</p> $\frac{-12}{30} + \frac{5}{30} + \frac{-10}{30}$ $\frac{-22}{30} + \frac{5}{30} = \frac{-17}{30}$	<p>f) $\frac{2}{7} + 1\frac{4}{9} + (-\frac{2}{7})$</p> $\frac{2}{7} + \frac{13}{9} + \frac{-2}{7}$ $\frac{18}{63} + \frac{91}{63} + \frac{-18}{63} = \frac{91}{63} = 1\frac{4}{9}$
<p>g) $-8\frac{3}{4} - (-2\frac{1}{2})$</p> $\frac{-35}{4} + \frac{5}{2} = \frac{-35}{4} + \frac{10}{4} = \frac{-25}{4}$ $-6\frac{1}{4}$		

5. The table shows stock prices for the end of October.

Stock	High (\$)	Low (\$)	Close(\$)
T.J. Pet Supplies	$5\frac{1}{4}$	$4\frac{1}{2}$	5
Millwork Tools Co.	$13\frac{1}{2}$	$12\frac{1}{4}$	$12\frac{3}{4}$
AGS Explorations	21	$20\frac{7}{8}$	$20\frac{7}{8}$

a) Find the difference between the closing price and the low price for each stock.

$5 - 4\frac{1}{2} = 5 - \frac{9}{2} = \frac{10}{2} - \frac{9}{2} = \frac{1}{2}$ The difference between the closing price and the low for T.J. Pet Supplies is $\frac{1}{2}$
$12\frac{3}{4} - 12\frac{1}{4} = \frac{2}{4} = \frac{1}{2}$ The difference between the closing price and the low for Millwork Tools Co. is $\frac{1}{2}$
$20\frac{7}{8} - 20\frac{7}{8} = 0$ There is no difference in the closing price and the low for AGS Explorations.

b) Find the change between each high and low.

$5\frac{1}{4} - 4\frac{1}{2} = \frac{21}{4} - \frac{9}{2} = \frac{21}{4} - \frac{18}{4} = \frac{3}{4}$ The change between high and low was $\frac{3}{4}$ for T.J. Pet Supplies
$13\frac{1}{2} - 12\frac{1}{4} = \frac{27}{2} - \frac{49}{4} = \frac{54}{4} - \frac{49}{4} = \frac{5}{4} = 1\frac{1}{4}$ The change between high and low was $1\frac{1}{4}$ for Millwork Tools Co.
$21 - 20\frac{7}{8} = \frac{1}{8}$ The change between high and low was $\frac{1}{8}$ for AGS Explorations.

c) How much would 20 shares of Millwork Tools Company cost if they were purchased at the closing price?

$20 \times 12\frac{3}{4} = \frac{20}{1} \times \frac{51}{4} = \frac{1020}{4} = 255$ The cost would be \$255
